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Name of Registered Representative:

John C. Freeman  
John C. Freeman, Reg. No. 34,483

October 9, 2001  
Date of Signature

PATENT  
CASE NO. 56/353

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application: )  
)  
Robert Wastlhuber et al. )  
) Group Art Unit: 2661  
)  
Serial No.: 09/884,553 )  
) Examiner: unassigned  
Filed: June 18, 2001 )  
)  
For: METHOD AND DEVICE FOR )  
SERIAL DATA TRANSMISSION )  
BETWEEN A POSITION )  
MEASURING SYSTEM AND )  
A PROCESSING UNIT )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97-1.98, Applicants hereby submit the following references for consideration by the Examiner. Copies of the references are enclosed along with a completed copy of Form PTO-1449.

## **I. DISCLOSURE**

### **A. U.S. Patents**

<b><u>Patent No.</u></b>	<b><u>Inventor</u></b>	<b><u>Issue Date</u></b>
5,625,353	Katagiri et al.	04/29/97
5,687,103	Hagl et al.	11/11/97
5,815,089	Katagiri et al.	09/29/98
6,124,588	Hagl et al.	09/26/00

### **B. Foreign Patents**

<b><u>Reference No.</u></b>	<b><u>Country</u></b>	<b><u>Pub. Date</u></b>
30 01 331	W. Germany	07/23/81
40 05 087	Germany	08/01/91
43 44 916	Germany	06/30/94
0 660 209	EP	06/28/95
197 14 152	Germany	08/13/98
198 11 095	Germany	09/30/99

### **C. Literature**

1. Schneider, Sandro, "Verteilte Intelligenz im CAN-Bus-Verbund," F&M, Vol. 104, No. 10, 1996, pp. 757-758.
2. Bielski, Steffen et al., "Absolute Messsysteme – Sicherheitserwartungen an die Datenerfassung und Datenübertragung," Automatisieren, Nos. 1/2, 1996, pp. 6, 8, 9, 12,14.

**D. Pending Dr. Johannes Heidenhain GmbH Patent Applications**

<b><u>Application No.</u></b>	<b><u>Inventor</u></b>	<b><u>Filing Date</u></b>
09/884,858	Wastlhuber et al.	06/18/01

**II. DISCUSSION**

**A. West German Patent Reference No. 30 01 331**

Based solely on the drawings and the enclosed English language Abstract, the '331 patent reference is pertinent because it appears to disclose a monitor for motor vehicles where a start bit sequence of each transmitted word is used to synchronize the receiver.

The '605 patent reference was designated as an A-type reference in a Search Report in corresponding German Patent Application 100 30 358.7. An A-type reference is deemed to define the general state of the art, which is not considered to be of particular relevance.

**B. German Patent Reference No. 40 05 087**

Based solely on the drawings and the enclosed English language Abstract, the '087 patent reference is pertinent because it appears to disclose a connection unit that provides an acknowledgement signal after reception of a transmit signal and a data signal.

The '087 patent reference was designated as a Y-type reference in a Search Report in corresponding German Patent Application 100 30 358.7. A Y-type reference is deemed to be pertinent when combined with one or more Y-type references.

**C. German Patent Reference No. 43 44 916**

Based solely on the drawings and the enclosed English language Abstract, the '916 patent reference is pertinent because it appears to disclose a transmission device that uses position data and separate data.

The '916 patent reference was designated as a Y-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

It is believed that U.S. Patents Nos. 5,625,353 and 5,815,089 correspond to the '916 reference.

**D. European Patent Reference No. 0 660 209**

Based solely on the drawings and the enclosed English language Abstract, the '209 patent reference is pertinent because it appears to disclose an apparatus for serial transmission of data between a position measuring device and a processing unit. A binary code word defining an absolute position is fed to an output which causes bit-serial transmission. Commands can be transmitted serially as well.

The '209 patent reference was designated as a D-type and a Y-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

It is believed that U.S. Patent No. 5,687,103 corresponds to the '209 reference.

**E. German Patent Reference No. 197 14 152**

Based solely on the drawings and the enclosed English language Abstract, the '152 patent reference is pertinent because it appears to disclose a method of determining the maximum number of transmitted data from a time period.

The '152 patent reference was designated as a Y-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

**F. German Patent Reference No. 198 11 095**

Based solely on the drawings and the enclosed English language Abstract, the '095 patent reference is pertinent because it appears to disclose a method of using a transmission device to

detect teeth and gaps in a moving object.

The '095 patent reference was designated as an A-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

**G. Schneider Article**

Based solely on the pictures, the Schneider Article is pertinent because it appears to disclose

The Schneider Article was designated as an A-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

**H. Bielski et al. Article**

Based solely on the pictures, the Bielski et al. Article is pertinent because it appears to disclose


The Bielski et al. Article was designated as an A-type reference in a Search Report in corresponding German Patent Application 100 30 358.7.

**III. CONCLUSION**

It is believed that none of these references, alone or in combination, disclose or suggest the invention claimed. However, Applicant wishes to make it clear that the disclosure of the above references is in no way an admission that they qualify as prior art. It is Applicant's desire, however, to have these references available in the record for both the Examiner and the public to see. Applicant therefore requests that the Examiner review the entire disclosure of each reference and make the above-listed references of record. Applicant also invites the Examiner to review the above-mentioned Heidenhain application, copy of the originally filed claims is enclosed, and the

art cited therein.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J.C. Freeman". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

John C. Freeman  
Registration No. 34,483  
Attorney for Applicants

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Dated: October 9, 2001



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501253  
9/18/2000

FORM PTO-1449	SERIAL NO. 09/884,553	CASE NO. 501253
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE June 18, 2001	GROUP ART UNIT 2661
(use several sheets if necessary)	APPLICANT(S): Robert Wastlhuber et al.	

**REFERENCE DESIGNATION****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	5,625,353	04/29/97	Katagiri et al.		
	A2	5,687,103	11/11/97	Hagl et al.		
	A3	5,815,089	09/29/98	Katagiri et al.		
	A4	6,124,588	09/26/00	Hagl et al.		

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES	NO
	A5	30 01 331	07/23/81	W. Germany	X		
	A6	40 05 087	08/01/91	Germany	X		
	A7	43 44 916	06/30/94	Germany	X		
	A8	0 660 209	06/28/95	EP	X		
	A9	197 14 152	08/13/98	Germany	X		
	A10	198 11 095	09/30/99	Germany	X		

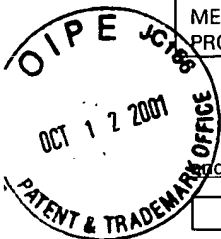
EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
	A11	Schneider, Sandro, "Verteilte Intelligenz im CAN-Bus-Verbund," F&M, Vol. 104, No. 10, 1996, pp. 757-758.
	A12	Bielski, Steffen et al., "Absolute Messsysteme - Sicherheitserwartungen an die Datenerfassung und Datenubertragung," Automatisieren, Nos. 1/2, 1996, pp. 6, 8, 9, 12, 14.
	A13	Pending Claims of Patent Application Assigned to Dr. Johannes Heidenhain GmbH: Serial No.: 09/884,858, Filing Date: 06/18/01, Inventor: Wastlhuber et al.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

2661  
#4

TRANSMITTAL LETTER			Case No. 56/353
Serial No. 09/884,553	Filing Date June 18, 2001	Examiner Not Assigned	Group Art Unit 2661
Inventor(s) Robert Wastlhuber et al.			
Title of Invention METHOD AND DEVICE FOR SERIAL DATA TRANSMISSION BETWEEN A POSITION MEASURING SYSTEM AND A PROCESSING UNIT			



TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is Information Disclosure Statement with copies of thirteen (13) cited references; Form 1449, and post card.

- ☐ Small entity status of this application under 37 CFR § 1.27 has been established by verified statement previously submitted.
- ☐ A statement to establish small entity status under 37 CFR §§ 1.9 and 1.27 is enclosed.
- ☐ Petition for a \_\_\_\_\_ month extension of time.
- ☐ No additional fee is required.
- ☐ The fee has been calculated as shown below:

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	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra
Total		Minus		
Indep.		Minus		
First Presentation of Multiple Dep. Claim				

Small Entity	
Rate	Add'l Fee
x \$9 =	
x \$42 =	
+ \$140 =	
Total add'l fee	\$

Other Than Small Entity	
Rate	Add'l Fee
x \$18 =	
x \$84 =	
+ \$280 =	
Total add'l fee	\$

- ☐ Please charge Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE) in the amount of \$\_\_\_\_\_. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$\_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
- ☒ I hereby petition under 37 CFR § 1.136(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

\_\_\_\_\_  
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Date: October 9, 2001 Signature:



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